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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/998,764	11/29/2001	Masaki Nakamura	56232.13 [4925]	6474
75	90 09/10/2003			
Squire, Sanders & Dempsey L.L.P. Suite 300			EXAMINER	
One Maritime Plaza			MANLOVE, SHALIE A	
San Francisco, 6	CA 94111			
			ART UNIT	PAPER NUMBER
			1755	10
			DATE MAILED: 09/10/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

t		Application No.	Applicant(s)
		09/998,764	NAKAMURA ET AL.
Office Action Summary		Examiner	Art Unit
		Shalie A. Manlove	1755
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover she t with the	correspondenc address
I HE I - Exter after - If the - If NO - Failu - Any r	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. Issions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period we to reply within the set or extended period for reply will, by statute, apply received by the Office later than three months after the mailing dipatent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day fill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication.
1)🖂	Responsive to communication(s) filed on Ame	endment .	
2a)⊠		s action is non-final.	
3)□ Dispositi	Since this application is in condition for allowa closed in accordance with the practice under <i>l</i> on of Claims	nce except for formal matters, pr Ex parte Quayle, 1935 C.D. 11, 4	rosecution as to the ments is 153 O.G. 213.
4) 🖾	Claim(s) <u>1-8</u> is/are pending in the application.		
•	a) Of the above claim(s) is/are withdraw	n from consideration.	
	Claim(s) is/are allowed.		
6)⊠	Claim(s) <u>1-8</u> is/are rejected.		
7)	Claim(s) is/are objected to.		
8)⊟ Applicatio	Claim(s) are subject to restriction and/or on Papers	election requirement.	
9)□ T	he specification is objected to by the Examiner		
10)□ T	he drawing(s) filed on is/are: a)□ accept	ted or b) objected to by the Exar	niner.
	Applicant may not request that any objection to the	drawing(s) be held in abeyance. Se	ee 37 CFR 1.85(a).
11) 🗌 T	he proposed drawing correction filed on	is: a) ☐ approved b) ☐ disappro	ved by the Examiner.
*	If approved, corrected drawings are required in repl		
12)□ T	he oath or declaration is objected to by the Exa	miner.	
Priority u	nder 35 U.S.C. §§ 119 and 120		
13) 🗌 📝	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a))-(d) or (f).
] All b) ☐ Some * c) ☐ None of:	- (,	••
	. Certified copies of the priority documents	have been received.	
2	2. Certified copies of the priority documents		on No
	B. Copies of the certified copies of the priorit application from the International Bure se the attached detailed Office action for a list o	y documents have been received	d in this National Stage
	knowledgment is made of a claim for domestic		
a)	☐ The translation of the foreign language provi knowledgment is made of a claim for domestic	isional application has been rece	eived.
ttachment(70 – • •	
) 🔲 Notice	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) tion Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal Pa	(PTO-413) Paper No(s) atent Application (PTO-152)
Patent and Trad OL-326 (Rev			

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DETAILED ACTION

Withdrawn Rejections

1. The 35 U.S.C 102 rejections of record in paper 7, pages 2-3; paragraphs 3 -5 have been withdrawn due to Applicant's amendment in paper 9.

New Rejections

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

2. Claims 3, 6, and 7 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claims contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventors, at the time the application was filed, had possession of the claimed invention. Specification fails to teach the polymer and surfactant or polymer and pigment derivative combinations.

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Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

4. Claims 1-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bugner et al (US 5985017) in view of Sano et al (USPN 5324349).

Bugner teaches a dispersant in ink jet inks comprising pigment #6 (col.9, lines 19-20) and a surfactant (col.6, lines 28-31) in an aqueous medium (col.6, lines 8-10). The preferred pigments have known chemical structures displaying polar groups attachments (col. 4, lines 38-47) and the reference evidently teaches the surfactant is adsorbed on the surface of the pigment. Bugner fails to teach the polymer. Sano et al discloses an ink composition for ink jet printing. The ink comprises a pigment that has an affinity for water, with a particle diameter of 10 microns or less, and polymers (abstract, col.2, lines 51-67). The polymeric component can be water-soluble, anionic and have an average molecular weight of 3,000 to 30,000

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(col. 3, lines 1-35). Bugner teaches surfactants and it is well known in the art that the surfactants are surface-active on the pigment. Sano (col.1, lines 5-8) teaches pigment-dispersed water-based ink compositions that are comprised of water-soluble polymers and hydrophilic pigments for the purpose of producing a composition that is stable, gives quality images and resolution, and has no negative effects on the printer nozzle. It would have been obvious to one of ordinary skill in the art, to add a water-soluble polymer, to the ink of Bugner in order to produce a quality ink composition

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Response to Arguments

5. Applicant's arguments with respect to claims 1-8 have been considered but are moot in view of the new ground(s) of rejection.

that is stable and will not clog the printer nozzle.

Conclusion

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Shalie A. Manlove Examiner Art Unit 1755

September 4, 2003

C. MELISSA KOSLOW PRIMARY EXAMINER